1/3

Figure 1

Polynucleotide sequence of Human BMP2A gene (gi: 179501 and 4557368) (SEQ ID NO:1) (Coding sequence: 324 – 1514)

	` -						
5							
	1	aggacttct	tgaacttgca	gggagaataa	cttgcgcacc	ccactttgcg	ccggtgcctt
	61	+ acceptance	gagectgett	caccatata	gagececaee	gececucae	ccccggccc
	101	tacccascac	tgagacgctg	ttcccaqcqt	gaaaagagag	actiguege	cggcacccgg
	101	as as sausaa	angcaaagaa	aaggaacgga	cattcggtcc	LigityClayy	CCCCCCgaco
10	241	agagettttc.	catotogaco	ctctttcaat	agacgtgtcc	ccgcgtgctt	Cttagacgga
10	201	atacaatete	ctaaaggtcg	accatootoo	ccqqgacccg	cigicilicia	gegeege
	261	ttccccaaat	cctcctagge	aacacaacta	gcctcgttcc	ggagerggge	cycayyaaye
	121	tagaaaaaaa	atcatcagac	cacccctcat	cccagccctc	Lyacyayytt	Ctgagcgagt
	A Q 1	tagaattaga	actactcage	atattcaacc	tgaaacagag	acceacece	agcagggacg
15	5/1	contractace	cccctacato	ctagacctgt	atcgcaggca	Cleaggleag	ccgggcccac
15	601	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	ccaccaatta	gagagggag	ccagccgagc	Caacactgtg	cgcageeece
	661	accatgaaga	atctttggaa	gaactaccag	aaacgagtgg	gaaaacaacc	cygagaccet
	721	+c+++aattt	aagttctatc	cccacaaaaa	agtttatcac	Cecagoayay	cecaggeee
	701	tocoacaca	gatgcaagat	gctttaggaa	acaatagcag	tillication	cyaaccaaca
20	0/1	+++atraaat	cataaaaacct	gcaacagcca	actcgaaatt	Coccytyacc	agactergy
20	001	acaccadett	ggtgaatcag	aatocaaoca	qqtgggaaag	Lillyalyic	accecegecy
	0.61	tastacaata	dactdcacad	ggacacgcca	accatggatt	cgcggcggaa	geggeeeace
	1021	tanagragas	acaaggtgtc	tccaagagac	atgttaggat	aagcaggccc	Ligitational
	1001	atraacacar	ctggtcacag	ataaggccat	tgctagtaac	ttttggccat	gatggaaaag
25	11/1	aggatectet	ccacaaaaga	gaaaaacgtc	aagccaaaca	Caaacaycyy	adacgcccca
20	1201	antecarete	taadadacac	cctttataca	tggacttcag	tgacglyggg	Lygaacgace
	1261	aanttataa	tececegaaa	tatcacocct	tttactqcca	Cygayaacyc	
	1 2 2 1	taactaatca	tctgaactcc	actaatcato	ccattgttca	. gacgilggic	adcticigitu
	1201	actetaadat	tectaaggea	tactatatca	: cgacagaact	cagigolalo	ccyatycege
30	1 1 1 1	accttdacda	gaatgaaaag	_l gttgtattaa	l agaactatca	ggacatyytt	gtggagggtt
	1501	gtgggtgtcg	ctagtacago	: aaaattaaat	: acataaatat	atatata	

WO 2005/041857

PCT/IL2004/000924

2/3

Figure 2

Polypeptide sequence of human BMP2A (SEQ ID NO:2 = translation of SEQ ID NO:1)

5	1	MVAGTRCLLA	LLLPQVLLGG	AAGLVPELGR	RKFAAASSGR
	41	PSSQPSDEVL	SEFELRLLSM	FGLKQRPTPS	RDAVVPPYML
	81	DLYRRHSGQP	GSPAPDHRLE	RAASRANTVR	SFHHEESLEE
	121	LPETSGKTTR	RFFFNLSSIP	TEEFITSAEL	QVFREQMQDA
	161	LGNNSSFHHR	INIYEIIKPA	TANSKFPVTR	LLDTRLVNQN
10	201	ASRWESFDVT	PAVMRWTAQG	HANHGFVVEV	AHLEEKQGVS
	241	KRHVRISRSL	HQDEHSWSQI	RPLLVTFGHD	GKGHPLHKRE
	281	KRQAKHKQRK	RLKSSCKRHP	LYVDFSDVGW	NDWIVAPPGY
		HAFYCHGECP			
	361	CVPTELSAIS	MLYLDENEKV	VLKNYQDMVV	EGCGCR

15

Figure 3
Results of a loss of function validation experiment

